

STRAP-ON TEMPERATURE SENSOR TEPK NI 1000

TEPK NI 1000 temperature sensor is designed for pipe strap-on installations in heating and cooling applications.

Temperature is detected by a Ni sensor element with a nominal resistance of 1 k Ω at 0 °C.

There is used a heat conducting tape to ensure a good contact between the sensor and pipe. Sensor is mounted on the pipe by using a cable tie.

Sensor resistance at different temperatures:

°C	Ω	°C	Ω
120	1760	25	1141
100	1618	20	1112
90	1549	15	1084
80	1483	10	1056
75	1450	5	1028
70	1417	0	1000
65	1385	-5	973
60	1353	-10	946
55	1322	-15	919
50	1291	-20	893
45	1260	-25	867
40	1230	-30	842
35	1200	-40	791
30	1171	-50	743



Technical data:

Sensor	Ni 1000 element, 1 k Ω at 0 °C
Pipe diameter	Ø 10...100 mm
time constant	about 5 s
Cable	2 m, LIYY 2 x 0,14 (PVC)
Range	-20...+80 °C
Accuracy	±0.4 °C (at 0 °C)

Ordering guide:

Model	Product number	Description
TEPK NI 1000	117C240	temperature sensor 1 k Ω at 0 °C

Products fulfil the requirements of directive 2004/108/EC and are in accordance with the standards EN61000-6-3: 2001 (Emission) and EN61000-6-2: 2001 (Immunity).